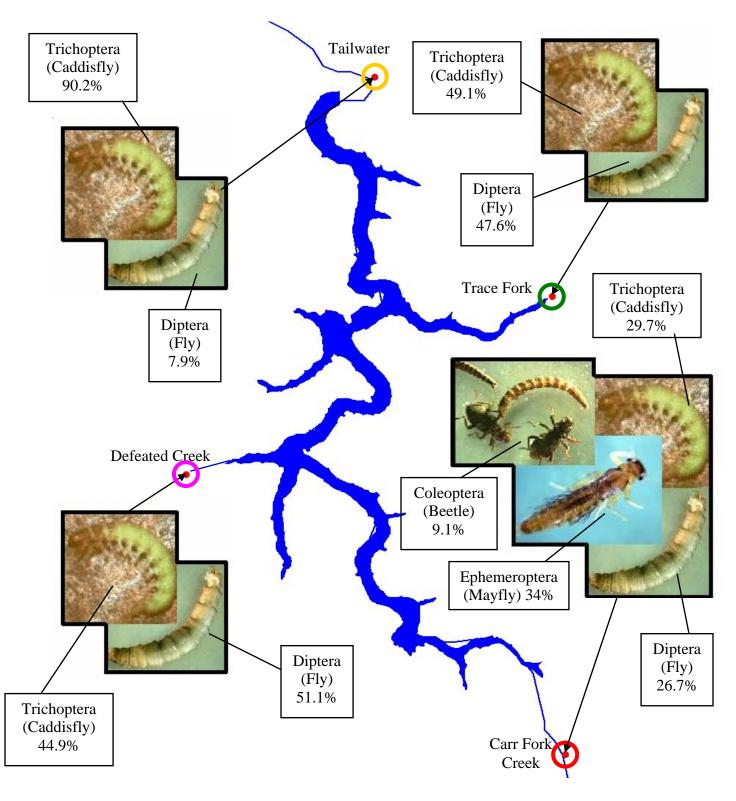
Aquatic Insects' Community Structure Carr Creek Lake Analysis September 16, 2004

Relative abundance of dominant taxa found at the sites shown below.



Community Metrics *	Carr Creek				
	Tailwater	Carr	Trace	Defeated	
Callerd's a Date		Fork	Fork	Creek	
Collection Date	9/16/04	9/16/04	9/16/04	9/16/04	4
Total # of Taxa	15	31	24	20	┨ .
% Contribution of Dominant Taxa	93	64	86	72	
Modified Hilsenhoff					
Biotic Index (0, good –	6.16	7.00	6.28	6.32	P
10, bad)					1
Shannon-Wiener Index	0.97	2.56	2.01	2.34	_
# of Ephemeroptera Taxa	2	3	1	1	
% Ephemeroptera Taxa	1	33	0	3	
(Abundance)			_		1
# of Plecoptera Taxa	0	0	0	0	
% Plecoptera Taxa	0	0	0	0	
(Abundance) # of Trichoptera Taxa	4	3	3	4	
% Trichoptera Taxa				-	1
(Abundance)	82	29	49	39	
# of EPT Taxa	6	6	4	5	1
% EPT Taxa	83	62	49	42	1
# of Dipteran Taxa	6	17	14	12	上
% Dipteran Taxa	7	26	47	44	
# of Chironomid Taxa	4	13	10	9	۲
% Chironomid Taxa	5	15	42	39	1
# of Tanytarsini Taxa	1	2	2	3	1
% Tanytarsini Taxa	2	9	3	9	1
# of Orthocladiinae Taxa	2	7	7	3	1
% Orthocladiinae Taxa	3	4	37	21	1
% Cricotopus +					┞
Chironomus/Total Chiron.	48	14	85	53	
# of Dipteran Taxa –					1
Tanytarsini and other	7	18	14	11	
Non-Insect Taxa					4
% Dipteran Taxa -	1.4	10	4.5	40	
Tanytarsini and other Non-Insect Taxa	14	18	45	49	
Ratio of EPT to Chiron.					ł
Abundance	16.04	4.05	1.17	1.08	
% Tolerant Organisms	1	1	1	14	ĺ
6 ** ** **	•				1
# of Individuals / m ²	1,311	2,343	1,603	1,008	1
* Based on 4 replicate surbe					1
Substrate sampled – small	stones				

- 5 Most Abundant Taxa at Tailwater
- 1. Cheumatopsyche sp. (Trichoptera) 86.2%
- 2. Cricotopus/Orthocladius sp. (Diptera) 2.7%
- 3. Rheotanytarsus exiguus group sp. (Diptera) 2.5%
- 4. Simulium sp. (Diptera) 2%
- 5. Hydropsyche betteni (Trichoptera) 1.8%

5 Most Abundant Taxa on Carr Fork

- 1. Cheumatopsyche sp. (Trichoptera) 24.6%
- 2. Stenonema vicarium (Ephemeroptera) 16.1%
- 3. Rheotanytarsus exiguus group sp. (Diptera) 9.6%
- 4. Optioservus sp. (Coleoptera) 8%
- 5. Stenonema sp. (Ephemeroptera) 7.6%

5 Most Abundant Taxa on Trace Fork

- 1. Cricotopus/Orthocladius sp. (Diptera) 35.2%
- 2. Cheumatopsyche sp. (Trichoptera) 21.6%
- 3. Hydropsyche sp. (Trichoptera) 15%
- 4. Hydropsyche betteni (Trichoptera) 11.6%
- 5. Antocha sp. (Diptera) 3.7%

5 Most Abundant Taxa on Defeated Cr

- 1. Cricotopus (Cricotopus) sp. (Diptera) 23.5%
- 2. Cheumatopsyche sp. (Trichoptera) 22.9%
- 3. Hydropsyche sp. (Trichoptera) 11.1%
- 4. Thienemannimyia group sp. (Diptera) 9.9%
- 5. Ceratopsyche morosa group sp(Trichoptera)5.9%